



Form PTO-1449 (modified)		Atty. Docket No. ARCD:309US/DLP	Serial No. 09/531,120
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Daphne Preuss et al.	
		Filing Date: March 17, 2000	Group: 1643
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### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
AC	B2	WO 98/55637	December 10, 1998	PCT			

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AC	C103	Mayer et al., "Sequence and analysis of chromosome 4 of the plant <i>Arabidopsis thaliana</i> ," <i>Nature</i> , 402:769-777, 1999.
	C104	Richards et al., "The centromere of <i>Arabidopsis thaliana</i> chromosome 1 contains telomere-similar sequences," <i>Nuc. Acid. Res.</i> , 19:3351-3358, 1991.
✓	C105	EMBL nucleotide and protein databases, "Arabidopsis thaliana chromosome II section 41 of 255 of the complete sequence. Sequence from clones T25N22, T13E11," No: XP002159529, 1998.
AC	C106	EMBL nucleotide and protein databases, "Arabidopsis thaliana BAC T27D20," No: XP002159530, 1998.

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EXAMINER: *Amrit Chakrabarti* DATE CONSIDERED: *2/21/02*

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
AC	A1	4,889,806	12/26/89	Olson et al.	435	172.3	04/15/87
	A2	5,270,201	12/14/93	Richards et al.	435	240.4	03/30/92
	A3	5,695,967	12/09/97	Van Bokkelen et al.	435	91.1	06/07/95
	A4	5,712,134	01/27/98	Hadlaczky	435	172.2	01/19/95
	A5	5,721,118	02/24/98	Scheffler	435	69.1	10/29/96
	A6	5,869,294	02/09/99	Harrington et al.	435	91.1	09/20/96
	A7	5,288,625	02/22/94	Hadlaczky	435	172.2	09/13/91
	A8	5,891,691	04/06/99	Hadlaczky	435	172.3	10/21/96

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	B1	WO 89/09219	10/05/89	PCT			

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	C1	Abel <i>et al.</i> , "Delay of disease development in transgenic plants that express the tobacco mosaic virus coat protein gene," <i>Science</i> 232:738-743, 1986.
	C2	Alfenito <i>et al.</i> , "Molecular characterization of a maize B chromosome centric sequence," <i>Genetics</i> , 135:589-597, 1993.
	C3	Allshire, "Centromeres, checkpoints and chromatid cohesion," <i>Curr. Opin. Genetics and Devel.</i> , 7:264-273, 1997.
AC	C4	Alonso-Blanco <i>et al.</i> , "Development of an AFLP based linkage map of Ler, Col and Cvi Arabidopsis thaliana ecotypes and construction of a Ler/Cvi recombinant inbred line population," <i>Plant J.</i> , 14(2):259-271, 1998.

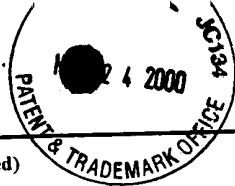
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Daphne Preuss et al.**Filing Date:**  
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1643**U.S. Patent Documents**  
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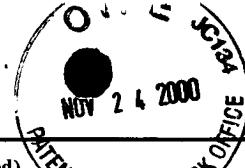
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AC	C5	Baum <i>et al.</i> , "The centromeric K-type repeat and the central core are together sufficient to establish a functional <i>Schizosaccharomyces pombe</i> centromere," <i>Mol. Bio. Cell.</i> , 5:747-761, 1994.
	C6	Bell and Ecker, "Assignment of 30 microsatellite loci to the linkage map of <i>Arabidopsis</i> ," <i>Genomics</i> , 19:137-144, 1994.
	C7	Bevan <i>et al.</i> , "Structure and transcription of the nopaline synthase gene region of T-DNA," <i>Nucleic Acids Research</i> , 11:369-385, 1983.
	C8	Bevan <i>et al.</i> , "Clearing a path through the jungle: progress in <i>Arabidopsis</i> genomics," <i>BioEssays</i> 21:110-120, 1999.
	C9	Birchler, "Do these sequences make CENs yet?" <i>Genome Res.</i> , 7:1035-1037, 1997.
	C10	Bloom, "The centromere frontier: Kinetochore components, microtubule-based motility, and the CEN-value paradox," <i>Cell</i> , 73:621-624, 1993.
	C11	Brandes <i>et al.</i> , "Multiple repetitive DNA sequences in the paracentromeric regions of <i>Arabidopsis thaliana</i> L.," <i>Chrom. Res.</i> , 5:238-246, 1997.
	C12	Burke <i>et al.</i> , "Cloning of large segments of exogenous DNA into yeast by means of artificial chromosome vectors," <i>Science</i> , 236:806-812, 1987.
	C13	Cambareri <i>et al.</i> , "Structure of the chromosome VII centromere region in <i>neurospora crassa</i> : degenerate transposons and simple repeats," <i>Mol. Cell. Biol.</i> , 18:5465, 1998.
	C14	Capecchi, "High efficiency transformation by direct microinjection of DNA into cultured mammalian cells," <i>Cell</i> 22(2):479-488, 1980.
	C15	Carbon and Clarke, "Structural and functional analysis of a yeast centromere (cen3)," <i>J. Cell Sci. Supp.</i> , 1:43-58, 1984.
	C16	Carbon and Clarke, "Centromere structure and function in budding and fission yeasts," <i>New Biologist</i> , 2:10-19, 1990.
	C17	Chang <i>et al.</i> , "Restriction fragment length polymorphism linkage map for <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci., USA</i> , 85:6856-6860, 1988.
AC	C18	Choo, "Turning on the centromere," <i>Nature Gene.</i> , 18:3-4, 1998.

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AC	C19	Christou <i>et al.</i> , "Stable transformation of soybean callus by DNA-coated gold particles," <i>Plant Physiol.</i> , 87:671-674, 1988.
	C20	Chu <i>et al.</i> , "Separation of large DNA molecules by contour-clamped homogeneous electric fields," <i>Science</i> , 234:1582-1585, 1986.
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	C22	Clarke and Carbon, "Isolation of a yeast centromere and construction of functional small circular chromosomes," <i>Nature</i> , 287:504-509, 1980.
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	C27	Copenhaver <i>et al.</i> , "Genetic Definition and sequence analysis of <i>Arabidopsis</i> centromeres," <i>Science</i> . 286:2468-2474, 1999.
	C28	Depicker <i>et al.</i> , "A negative selection scheme for tobacco protoplast-derived cells expressing the T-DNA gene 2," <i>Plant Cell Reports</i> , 7:63-66, 1988.
	C29	du Sart <i>et al.</i> , "A functional neo-centromere formed through activation of a latent human centromere and consisting of non-alpha-satellite DNA," <i>Nature Gene.</i> , 16:144-153, 1997.
	C30	Earnshaw <i>et al.</i> , "Proteins of the inner and outer centromere of mitotic chromosomes," <i>Genome</i> , 31:541-552, 1989.
	C31	Earnshaw, "When is a centromere not a kinetochore?," <i>J. Cell Sci.</i> , 99:1-4, 1991.
VAC	C32	Franz <i>et al.</i> , "Cytogenetics for the model system <i>Arabidopsis thaliana</i> ," <i>Plant J.</i> , 13:867-876, 1998.

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*Anup Kr. Chakrabarti* DATE CONSIDERED: *2/21/02*

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	C38	Hegemann <i>et al.</i> , "The centromere of budding yeast," <i>Bioassays</i> , 15:451-460, 1993.
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	C40	Hauge <i>et al.</i> , "Mapping the <i>Arabidopsis</i> genome," <i>Symp Soc Exp Biol</i> , 45:45-56, 1991.
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	C43	Ikeno <i>et al.</i> , "Construction of YAC-based mammalian artificial chromosomes," <i>Nature Biotech.</i> , 16:431-439, 1998.
	C44	Kaszas and Birchler, "Misdivision analysis of centromere structure in maize," <i>J. EMBO</i> , 15:5246-5255, 1996.
✓	C45	Klein <i>et al.</i> , "High-velocity microprojectiles for delivering nucleic acids into living cells," <i>Nature</i> , 327:70-73, 1987.
AC	C46	Klein <i>et al.</i> , "Stable genetic transformation of intact <i>Nicotiana</i> cells by the particle bombardment process," <i>Proc. Nat'l Acad. Sci. USA</i> , 85:8502-8505, 1988.

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AC	C47	Konieczny <i>et al.</i> , "A procedure for mapping <i>Arabidopsis</i> mutations using codominant ecotype-specific PCR-based markers," <i>The Plant Journal</i> , 4:403-410, 1993.
	C48	Konieczny <i>et al.</i> , "A superfamily of <i>Arabidopsis thaliana</i> retrotransposons," <i>Genetics</i> , 127:801-809, 1991.
	C49	Koorneef, "Linkage map of <i>Arabidopsis thaliana</i> ," <i>J. Heredity</i> , 74:265-272, 1983.
	C50	Koorneef, "The use of telotrisomics for centromere mapping in <i>Arabidopsis thaliana</i> (L.) Heynh," <i>Genetica</i> , 62:33-40, 1983.
	C51	Koorneef <i>et al.</i> , "Trisomics in <i>Arabidopsis thaliana</i> and the location of linkage groups," <i>Genetica</i> , 61:41-46, 1983.
	C52	Lin <i>et al.</i> , "Sequence and Analysis of Chromosome 2 of <i>Arabidopsis thaliana</i> ," <i>Nature</i> , 402: 761-768, 1999.
	C53	Lorz <i>et al.</i> , "Gene transfer to cereal cells mediated by protoplast transformation," <i>Mol. Gen. Genet.</i> , 199:178-182, 1985.
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	C55	Maluszynska and Heslop-Harrison, "Localization of tandemly repeated DNA sequences in <i>Arabidopsis thaliana</i> ," <i>Plant Jour.</i> , 1:159-166, 1991.
	C56	Marra <i>et al.</i> , "zA map for sequence analysis of the <i>Arabidopsis thaliana</i> genome," <i>Nature Genet.</i> 22:265-270, 1999.
	C57	Martinez-Zapater <i>et al.</i> , "A highly repeated DNA sequence in <i>Arabidopsis thaliana</i> ," <i>Mol. Gen. Genet.</i> , 204:417-423, 1986.
	C58	Mozo <i>et al.</i> , "Construction and characterization of the IGF <i>Arabidopsis thaliana</i> BAC library," <i>Mol Gen Genet</i> , 258:562-570, 1998.
	C59	Mozo <i>et al.</i> , "A complete BAC-based physical map of the <i>Arabidopsis thaliana</i> genome," <i>Nature Genet.</i> 22:271-275, 1999.
AC	C60	Murata <i>et al.</i> , "Physical mapping of the 5S ribosomal RNA genes in <i>Arabidopsis thaliana</i> by multi-color fluorescence <i>in situ</i> hybridization with cosmid clones." <i>Plant J.</i> , 12:31-37, 1997.

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*Anna Kr. Chakrabarti* DATE CONSIDERED: 2/21/02

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AC	C61	Murphy and Karpen, "Localization of centromere function in a Drosophila minichromosome," <i>Cell</i> , 82:599-609, 1995.
	C62	Murray and Szostak, "Construction of artificial chromosomes in yeast," <i>Nature</i> , 305:189-193, 1983.
	C63	Napolini <i>et al.</i> , "Introduction of a chimeric chalcone synthase gene into petunia results in reversible co-suppression of homologous genes in trans," <i>Plant Cell</i> , 2:279-289, 1990.
	C64	Pelissier <i>et al.</i> , "Dna regions flanking the major <i>Arabidopsis thaliana</i> satellite are principally enriched in <i>athila</i> retroelement sequences," <i>Genetica</i> , 97:141-151, 1996.
	C65	Pelissier <i>et al.</i> , <i>Plant Mol. Biol.</i> , "Athila, a new retroelement from <i>Arabidopsis thaliana</i> ," 29:441-452, 1995.
	C66	Potrykus <i>et al.</i> , "Direct gene transfer to cells of a graminaceous monocot," <i>Mol. Gen. Genet.</i> , 199:183-188, 1985.
	C67	Perkins, "The detection of linkage in tetrad analysis," <i>Genetics</i> , 38, 187-197, 1953.
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	C73	Sasnauskas <i>et al.</i> , "Molecular cloning and analysis of autonomous replicating sequence of <i>candida maltosa</i> ," <i>Yeast</i> , 8:253-259, 1992.
✓	C74	Schmidt <i>et al.</i> , "Physical map and organization of <i>Arabidopsis thaliana</i> chromosome 4," <i>Science</i> , 270:480-483, 1995.
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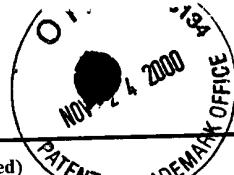
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	C79	Sun <i>et al.</i> , "Molecular structure of a functional <i>drosophila</i> centromere," <i>Cell</i> , 91:1007-1019, 1997.
	C80	Tavoletti <i>et al.</i> , "Half tetrad analysis in alfalfa using multiple restriction fragment length polymorphism markers," <i>Proc. Natl. Acad. Sci. USA</i> , 93:10918-10922, 1996.
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1627096.1 Examiner:

*Anupkr. Chakrabarti* DATE CONSIDERED: 2/21/02

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Form PTO-1449 (modified)

Atty. Docket No. ARCD:309/SLH Serial No. 09/531,120

**List of Patents and Publications for Applicant's****INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Filing Date:  
March 17, 2000Group:  
1643U.S. Patent Documents  
*See Page 1*Foreign Patent Documents  
*See Page 1*Other Art  
*See Page 1***Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
AC	C90	Willard, H., "Centromeres of mammalian chromosomes" <i>Trends Genet.</i> , 6:410-416, 1990.
	C91	Williams <i>et al.</i> , "Neocentromere activity of structurally acentric mini-chromosomes in <i>Drosophila</i> ," <i>Nature Genetics</i> , 18:30-37, 1998.
	C92	Wright <i>et al.</i> , "Multiple non-LTR retrotransposons in the genome of <i>Arabidopsis thaliana</i> ," <i>Genetics</i> , 142:569-578, 1996.
	C93	Xiang and Guerra, "The anti- <i>nptll</i> gene," <i>Plant Physiol.</i> , 102:287-293, 1993.
	C94	Zentgraf <i>et al.</i> , "Telemere-binding proteins <i>Arabidopsis thaliana</i> ," <i>Plan. Mol. Bio.</i> , 27:467-475, 1995.
	C95	International Search Report dated October 28, 1998 (PCT/US98/11288)(ARCD:257P).
	C96	FIG. 17 from U.S Application Serial No. 09/531,120
	C97	FIG. 18 from U.S Application Serial No. 09/531,120
	C98	Table 3 from U.S Application Serial No. 09/531,120, "Predicted genes within CEN and CEN4 that correspond to the cDNA database."
	C99	Table 4 from U.S Application Serial No. 09/531,120, "List of additional genes encoded within the boundaries of CEN4."
	C100	Table 5 from U.S Application Serial No. 09/531,120, "BAC clones residing within A. thaliana centromeres and associated Genebank accession numbers."
✓ AC	C101	Table 6 from U.S Application Serial No. 09/531,120, "Fully sequenced BAC clones containing A. thaliana centromere sequences."
✓ AC	C102	Co-pending U.S. Patent Application No. 09/090,051 filed June 3, 1998. (ARCD:257)

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*Houm Kr. Chakrabarti* DATE CONSIDERED: 2/21/02

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Atty. Docket No. ARCD:309US/DLP	Serial No. 09/531,120
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**List of Patents and Publications for Applicant's**

Applicant Daphne Preuss <i>et al.</i>
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Filing Date: March 17, 2000	Group: 1643
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U.S. Patent Documents <i>See Page 1</i>
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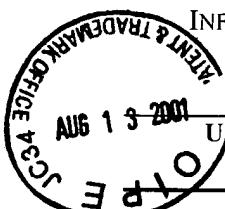
Foreign Patent Documents <i>See Page 1</i>
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Other Art <i>See Page 1</i>
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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A9	5,773,705	6/30/98	Vierstra <i>et al.</i>	800	250	5/25/95

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B3	97/40183	10/30/97	PCT			
	B4	99/06581	2/11/99	PCT			
	B5	1033405	9/6/00	Europe			

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C107	Norris <i>et al.</i> , "The intron of <i>Arabidopsis thaliana</i> polyubiquitin genes is conserved in location and is a quantitative determinant of chimeric gene expression," <i>Plant Mol. Biol.</i> , 21:895-906, 1993.
	C108	Sun and Callis, "Independent modulation of <i>Arabidopsis thaliana</i> polyubiquitin mRNAs in different organs and in response to environmental changes," <i>Plant. J.</i> , 11(5):1017-1027, 1997.
	C109	Sun <i>et al.</i> , "A model for the evolution of polyubiquitin genes from the study of <i>Arabidopsis thaliana</i> ecotypes," <i>Plant Mol. Biol.</i> , 34:745-758, 1997.
	C110	Tsugeki <i>et al.</i> , "A transposon insertion in the <i>Arabidopsis SSR16</i> gene causes an embryo-defective lethal mutation," <i>Plant J.</i> , 10(3):479-489, 1996.
	C111	EMBL database accession number AC006586.
	C112	EMBL database accession number AC006161.
	C113	EMBL database accession number AF074021.
	C114	EMBL database accession number AF072897.
	C115	EMBL database accession number B97084.
	C116	EMBL database accession number AC012392..

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Form PTO-1449 (modified)

Atty. Docket No.  
ARCD:309US/DLPSerial No.  
09/531,120

## List of Patents and Publications for Applicant's

Applicant

Daphne Preuss *et al.*

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Filing Date:  
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1643

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U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C117	EMBL database accession number AF162444.

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